

Hammad Khan

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Experience

Plotly

Montréal, Canada

DASH CORE DEVELOPER

May, 2019 - Present

- Worked as a member of an agile-driven team in a fast-paced startup environment on Dash, one of the most popular open-source frameworks for operationalizing and visualizing data analytics at scale.
- Developed the Dash core infrastructure; creating, testing, and iterating upon React components in JavaScript for open source and enterprise platforms including synergistic Dash Bio applications and workflow pipelines.
- Designed and built complex web-based interactive analytics applications for life sciences, financial, automotive and energy sectors using Dash for Python and R.
- Performed QA, developed deployment processes with Heroku and Docker, and executed containerized app deployments to Azure and AWS.
- Contributed to open source issues for a 4x increase in community engagement and enterprise projects to facilitate YOY revenue growth of over 15%.

Cognizant

Toronto, Canada

TECHNICAL REPORTING ANALYST - TEAM LEAD

May, 2018 - Jan, 2019

- Performed incident data analysis to diagnose problem areas using Excel to identify issues and formulate targeted solutions.
- Facilitated communication between clients and specialized teams as a systems engineer while identifying areas for improvement and process gaps, maintaining SLA metrics by over 25%.

Education

University of Toronto

Toronto, Canada

HONORS B.Sc. BIOLOGY SPECIALIST, COMPUTER SCIENCE MINOR

Sep. 2014 - Apr. 2019

- University of Toronto graduate with an Honors BSc. in Biology with a focus on Computational Biology and Bioinformatics.
- Experience with defining workflows for data analysis and interpreting results of computational analysis of biological data.
- Scotiabank Entrance Scholarship for Academic Excellence, Nancy Salmon Scholarship Fund

Projects

Independent Research Project

University of Toronto, Canada

GENOMICS

January, 2018 - March, 2018

- Performed statistical and biological analysis on patient data from the Personal Genome Project by emulating pipelines presented in journal article.
- Visualized statistical results in R with MatLab and presented interactive interface for results with R Shiny Applet.

Bioinformatics and Computational Biology Hackathon 2018

University of Toronto, Canada

FINALISTS

March, 2018

- Collaborated with a team of engineering, biology, and bioinformatics student to create a data-driven visual representation of our current understanding of the human genome by scraping data from various sources and compiling it in a final graphical render with D3.JS.

Skills

Technical

R(Advanced), Python (Intermediate), JavaScript (Intermediate), React (Intermediate), Git and Version Control (Advanced)
HTML/CSS (Intermediate), Tableau (Proficient), SPSS Statistics (Intermediate), Unix Shell Programming Environment

Data Analysis - Big Data parsing and cleaning, algorithm analysis, data structuring and visualization.

Relevant

Software Engineering - Application design, Front-End Development, Dashboard creation, Web development, Git/Version Control, Application deployment.

Bioinformatics DNA/Protein alignment and sequence analysis, genome sequencing, machine learning and clustering.

Genomics - Variant mining and visualization, RNAseq transcript assembly and analysis, de Novo assembly.